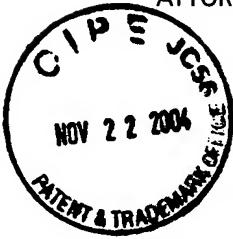




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Federal Agencies

November 22, 2004

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

*Art Unit 1647*

Re: U.S. Utility Patent Application  
Application No. 10/791,905; Filed: March 4, 2004  
For: **Human G-Protein Chemokine Receptor (CCR5) HDGNR10**  
Inventors: **LI et al.**  
Our Ref: **1488.115000P/EKS/HCC**

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement under 37 C.F.R. § 1.97(b);
2. Form PTO-1449 citing 240 documents;
3. Copies of cited documents AP20 and AL21; and
4. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents  
November 22, 2004  
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

*Carly h. longsworth*  
Helene C. Carlson      Reg. No. 47,756  
Agent for Applicants  
Registration No. 47,473

EKS/HCC/eaf  
Enclosures

336774v1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Li *et al.*

Appl. No.: 10/791,905

Filed: March 4, 2004

For: **Human G-Protein Chemokine  
Receptor (CCR5) HDG NR10**

Confirmation No.: 3954

Art Unit: 1647

Examiner: Turner, Sharon L.

Atty. Docket: 1488.115000P/EKS/HCC

**Information Disclosure Statement  
under 37 C.F.R. § 1.97(b)**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all the documents (except AB4, AI3, AJ3, AP20, AL21 and AS35) were cited by or submitted to the Office in IDS's that comply with 37 C.F.R. § 1.98(a)-(c) in Application No. 10/127,764, filed April 23, 2002, and/or Application No. 09/502,783, filed February 11, 2000, which are relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

Additionally, no copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted in accordance with 1276 OG 55 because this application was filed after June 30, 2003. In accordance with this rule, documents AB4, AI3, AJ3, and AS35 are not submitted.

Therefore, copies of documents AP20 and AL21 are submitted herewith.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following discussion of the relevance of the non-English language documents AL2, AM4, AL5, AL9, AP10, AM14, AN14, AM16, AO16, AL17, AP18, AO19, AL20, and AM20 cited on Form PTO 1449:

Document AL2 is in a foreign language. An English language abstract of document AL2 is attached as document AS23.

Document AM4 is in a foreign language. An English language translation of document AM4 is attached as document AT23.

Document AL5 is in a foreign language. An English language translation of document AL5 is attached as document AR24.

Document AL9, Japanese Patent Publication No. JP 10-179180, is in the Japanese language. An English language equivalent of document AL9 is attached as document AP7.

Document AP10 is in a foreign language. An English language translation of document AP10 is attached as document AS24.

Document AM14, French Patent Publication No. FR 2 771 423, is in the French language. Document AN14, PCT Patent Publication No. WO 99/27122, is in the French language. An English language abstract of documents AM14 and AN14 is attached as document AT24.

Document AM16 is in a foreign language. An English language translation of document AM16 is attached as document AR25.

Document AO16, PCT Patent Publication No. WO 99/51751, is in the French language. Document AL17, Japanese Patent Publication No. 11-292795, is in the French language. An English language abstract of documents AO16 and AL17 is attached as document AS25.

Document AP18 is in a foreign language. An English language translation of document AP18 is attached as document AT25.

Document No. AO19 are in a foreign language with an unverified English language abstract. The relevance of Document No. AO19 can be ascertained by reference to the unverified English language abstract appearing thereon.

Document AL20 is in a foreign language. An English language translation of document AL20 is attached as document AR26.

Document AM20 is in a foreign language. An English language translation of document AM20 is attached as document AS26.

The Examiner's attention is directed to the following co-pending applications:

U.S. Application No. 10/067,800, inventors Roschke *et al.*, filed February 8, 2002, now published as U.S. Publication No. 2003/0100058 A1 (Document AI3);

U.S. Application No. 10/127,764, inventors Li *et al.*, filed April 23, 2002, now pending (Document AS35);

U.S. Application No. 10/135,839, inventors Rosen *et al.*, filed May 1, 2002, now published as U.S. Publication No. 2003/0166024 A1 (Document AJ3);

U.S. Application No. 10/232,686, inventors Li *et al.*, filed September 3, 2002, now published as U.S. Publication No. 2003/0023044 A1 (Document AH3);

which are directed to related technical subject matter. The identification of these U.S. Patent Applications is not to be construed as a waiver if secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Applicants would like to bring to the Examiner's attention documents AT14, Murphy, P.M., for which the month of publication could not be determined. Applicants are aware that the first filing date relating to the above case would be 1995, which would imply that all documents published in 1994 and later should have the month listed as well. Applicants would also like to bring to the attention of the Examiner document AT34, NCBI Entrez, GenBank ref file NP\_000570.1., the entry date of which could not be determined.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier or later than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

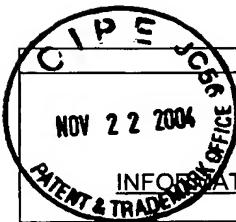
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1488.115000P/EKS/HCCAPPLICATION NO.  
10/791,905FIRST NAMED INVENTOR  
Li et al.FILING DATE  
March 4, 2004ART UNIT  
1647**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1 5,314,992	05/24/1994	Guyre et al.			11/25/1991
	AB1 5,440,021	08/08/1995	Chunatharapai et al.			02/25/1994
	AC1 5,652,133	07/29/1997	Murphy			01/28/1993
	AD1 5,707,815	01/13/1998	Charo et al.			5/25/1995
	AE1 5,776,729	07/07/1998	Soppet et al.			06/05/1995
	AF1 5,798,206	08/25/1998	Neurath et al.			01/10/1997
	AG1 5,817,310	10/06/1998	Ramakrishnan et al.			06/10/1994
	AH1 5,912,176	06/15/1999	Wang			06/02/1997
	AI1 5,919,776	07/06/1999	Hagmann et al.			12/18/1997
	AJ1 5,928,881	07/27/1999	Barnette et al.			07/11/1997
	AK1 5,939,320	08/17/1999	Littman et al.			06/19/1996

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1 WO 92/01810	02/06/1992	WIPO			Yes
	AM1 CA 2,146,328	05/26/1994	Canada			No
	AN1 CA 2,128,208	06/09/1994	Canada			Yes
	AO1 WO 94/11504	5/26/1994	WIPO			No
	AP1 WO 95/19436	07/20/1995	WIPO			Yes
						No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	1	Alkhatib, G. et al., "CC CKR5: A RANTES, MIP-1 $\alpha$ , MIP-1 $\beta$ Receptor as a Fusion Cofactor for Macrophage -Tropic HIV-1," <i>Science</i> 272:1955-1958, American Association for the Advancement of Science (June 1996)
AS	1	Balter, M., "Elusive HIV-Suppressor Factors Found," <i>Science</i> 270:1560-1561, American Association for the Advancement of Science (December 1995)
AT	1	Balter, M., "A Second Coreceptor for HIV In Early Stages of Infection," <i>Science</i> 272:1740, American Association for the Advancement of Science (June 1996)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

			ATTY. DOCKET NO. 1488.11500P/EKS/HCC	APPLICATION NO. 10791,905
FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>			FIRST NAMED INVENTOR Li et al.	
			FILING DATE March 4, 2004	ART UNIT 1647

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,939,538	08/17/1999	Leavitt et al.			12/19/1996
	AB2	5,961,976	10/05/1999	Wang			02/28/1997
	AC2	5,962,462	10/05/1999	Mills et al.			12/12/1997
	AD2	5,994,515	11/30/1999	Hoxie			06/25/1997
	AE2	6,013,644	01/11/2000	Mills et al.			12/12/1997
	AF2	6,025,154	02/15/2000	Li et al.			06/06/1995
	AG2	6,057,102	05/02/2000	Landau et al.			08/08/1997
	AH2	6,132,987	10/17/2000	Charo et al.			05/25/1995
	AI2	6,153,431	11/28/2000	Beretta et al.			05/28/1998
	AJ2	6,258,527	07/10/2001	Littman et al.			05/21/1997
	AK2	6,265,184 B1	07/24/2001	Gray et al.			12/20/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	EP 0 671 391	09/13/1995	Europe			Yes X No
	AM2	WO 96/22371	07/25/1996	WIPO			Yes No
	AN2	WO 96/23068	08/01/1996	WIPO			Yes No
	AO2	WO 96/38559	12/05/1996	WIPO			Yes No
	AP2	WO 96/39437	12/12/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Bendig, M.M., "Humanization of Rodent Monoclonal Antibodies by CDR Grafting," <i>Methods</i> 8:83-93, Academic Press, Inc. (October 1995)
AS	2	Bowie, J.U., et al. "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990)
AT	2	Burbach, J.P.H., and Meijer, O.C., "The structure of neuropeptide receptors," <i>Eur. J. Pharmacol.</i> 227:1-18, Elsevier Science Publishers B.V. (1992)

EXAMINER	DATE CONSIDERED
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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1488.115000P/EKS/HCC	APPLICATION NO. 10/791,905
		FIRST NAMED INVENTOR Li et al.	FILING DATE March 4, 2004
		ART UNIT 1647	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA3	6,268,477 B1	07/31/2001	Gray et al.			06/07/1996
AB3	6,287,805	09/11/2001	Graham et al.			03/20/1998
AC3	2002/0048786 A1	04/25/2002	Rosen et al.			02/09/2001
AD3	2002/0076745 A1	06/20/2002	Li et al.			11/18/1998
AE3	2002/0061834 A1	05/23/2002	Rosen et al.			02/09/2001
AF3	2002/0099176 A1	07/25/2002	Li et al.			06/25/1999
AG3	6,511,826	01/28/2003	Li et al.			02/11/2000
AH3	2003/0023044 A1	01/30/2003	Li et al.			09/03/2002
AI3	2003/0100058 A1	03/29/2003	Roschke et al.			02/08/2002
AJ3	2003/0166024 A1	09/04/2003	Rosen et al.			05/01/2002
AK3	6,743,594 B1	06/01/2004	Li et al.			02/11/2000

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL3	WO 97/00960	01/09/1997	WIPO			Yes No
AM3	WO 97/19696	06/05/1997	WIPO			Yes No
AN3	WO 97/21812	06/19/1997	WIPO			Yes No
AO3	WO 97/22698	06/26/1997	WIPO			Yes No
AP3	WO 97/25340	07/17/1997	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	3	Brühl, H. et al., "Depletion of CCR5-Expressing Cells with Bispecific Antibodies and Chemokine Toxins: A New Strategy in the Treatment of Chronic Inflammatory Diseases and HIV," <i>J. Immunol.</i> 166:2420-2426, The American Association of Immunologists (February 2001)
AS	3	Charo, I.F., et al., "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails," <i>Proc. Natl. Acad. Sci. USA</i> 91:2752-2756, National Academy of Science (March 1994)
AT	3	Choe, H. et al., "The β-Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates," <i>Cell</i> 85:1135-1148, Cell Press (June 1996)

EXAMINER

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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1488.115000P/EKS/HCC	APPLICATION NO. 10/791,905
		FIRST NAMED INVENTOR Li et al.	
		FILING DATE March 4, 2004	ART UNIT 1647

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA4	6,759,519 B2	07/06/2004	Li et al.			06/25/1999
AB4	6,800,729 B2	10/05/2004	Li et al.			11/18/1998
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL4	WO 97/28258	08/07/1997	WIPO			Yes No
AM4	EP 0 612 723	08/27/1997	Europe			Yes X No
AN4	WO 97/32019	09/04/1997	WIPO			Yes No
AO4	WO 97/35881	10/02/1997	WIPO			Yes No
AP4	WO 97/37005	10/09/1997	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	4	Cocchi, F. et al., "Identification of RANTES, MIP-1 $\alpha$ , and MIP-1 $\beta$ as the Major HIV-Suppressive Factors Produced by CD8+ T Cells," <i>Science</i> 270:1811-1815, American Association for the Advancement of Science (December 1995)
AS	4	Cohen, J., "Likely HIV Cofactor Found," <i>Science</i> 272:809-810, American Association for the Advancement of Science (May 1996)
AT	4	Combadiere, C. et al., "Cloning and functional expression of a human eosinophil CC chemokine receptor," <i>J. Biol. Chem.</i> 270:16491-16494, American Society for Biochemistry and Molecular Biology (July 1995)

EXAMINER

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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Li et al.	
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL5	WO 97/41230	11/06/1997	WIPO			Yes X No
AM5	WO 97/41225	11/06/1997	WIPO			Yes No
AN5	WO 97/44055	11/27/1997	WIPO			Yes No
AO5	WO 97/45543	12/04/1997	WIPO			Yes No
AP5	WO 97/46697	12/11/1997	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	5	Combadiere, C. et al., "Monocyte Chemoattractant Protein-3 Is a Functional Ligand for CC Chemokine Receptors 1 and 2," <i>J. Biol. Chem.</i> 270:29671-29675, American Society for Biochemistry and Molecular Biology (December 1995)
AS	5	Combadiere, C. et al., "Additions and Corrections to: Cloning and functional expression of a human eosinophil CC chemokine receptor," <i>J. Biol. Chem.</i> 270:30235, The American Society for Biochemistry and Molecular Biology (December 1995)
AT	5	Combadiere, C. et al., "Cloning and functional expression of CC CKR5, a human monocyte CC chemokine receptor selective for MIP-1 $\alpha$ , MIP-1 $\beta$ , and RANTES," <i>J. Leukocyte Biol.</i> 60:147-152, The Society for Leukocyte Biology (July 1996)

EXAMINER	DATE CONSIDERED
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		FIRST NAMED INVENTOR Li et al.	
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	AA						
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 97/47318	12/18/1997	WIPO			Yes No
	AM6	WO 97/47319	12/18/1997	WIPO			Yes No
	AN6	WO 97/49424	12/31/1997	WIPO			Yes No
	AO6	WO 98/00535	01/08/1998	WIPO			Yes No
	AP6	WO 98/05798	02/12/1998	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>6</u>	Cunningham, M.W., et al., "Cytotoxic and Viral Neutralizing Antibodies Crossreact With Streptococcal M Protein, Enteroviruses, and Human Cardiac Myosin," <i>Proc. Natl. Acad. Sci. USA</i> 89:1320-1324, National Academy of Sciences (1992)
AS	<u>6</u>	Deng, H., et al., "Identification of a major co-receptor for primary isolates of HIV-1," <i>Nature</i> 381:661-666, Macmillan Publishing Group (June 1996)
AT	<u>6</u>	Dimitrov, D.S., "Fusin - a place for HIV-1 and T4 cells to meet," <i>Nature Med.</i> 2:640-641, Nature Publishing Group (June 1996)

EXAMINER	DATE CONSIDERED
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Li et al.	
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7	WO 98/14480	04/09/1998	WIPO			Yes No
	AM7	WO 98/15569	04/16/1998	WIPO			Yes No
	AN7	WO 98/17308	04/30/1998	WIPO			Yes No
	AO7	WO 98/18826	05/07/1998	WIPO			Yes No
	AP7	EP 0 834 564	05/13/1998	Europe			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	Z	Doranz, B.J., et al., "A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and the $\beta$ -Chemkine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors," <i>Cell</i> 85:1149-1158, Cell Press (June 1996)
	AS	Z	Dragic, T., et al., "HIV-1 entry into CD4+ cells is mediated by the chemokine receptor CC-CKR-5," <i>Nature</i> 381:667-673, Macmillan Publishing Group (June 1996)
	AT	Z	Eva, C., et al., "Molecular cloning of a novel G protein-coupled receptor that may belong to the neuropeptide receptor family," <i>FEBS Letters</i> 271:81-84, Elsevier Science B.V. (1990)

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	AL8	WO 98/20166	05/14/1998	WIPO			Yes No
	AM8	WO 98/25604	06/18/1998	WIPO			Yes No
	AN8	WO 98/25605	06/18/1998	WIPO			Yes No
	AO8	WO 98/25617	06/18/1998	WIPO			Yes No
	AP8	WO 98/27815	07/02/1998	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>8</u>	Feng, Y., et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor," <i>Science</i> 272:872-877, American Association for the Advancement of Science (May 1996)
	AS	<u>8</u>	Gao, J.-L., et al., "Structure and Functional Expression of the Human Macrophage Inflammatory Protein 1 $\alpha$ /RANTES Receptor," <i>J. Exp. Med.</i> 117:1421-1427, Rockefeller University Press (1993)
	AT	<u>8</u>	George, D.G., et al., "Chapter 12. Current Methods in Sequence Comparison and Analysis," in <i>Macromolecular Sequencing and Synthesis. Selected Methods and Applications</i> , Schlesinger, D.H., ed., Alan R. Liss, Inc., New York, NY, pp. 127-149 (1988)

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	AL9	JP 10-179180	07/07/1998	Japan			Yes X No
	AM9	WO 98/30218	07/16/1998	WIPO			Yes No
	AN9	WO 98/31364	07/23/1998	WIPO			Yes No
	AO9	WO 98/34945	08/13/1998	WIPO			Yes No
	AP9	WO 98/38212	09/03/1998	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	9	Gomez-Reino, J.J., et al., "Association of Rheumatoid Arthritis with a Functional Chemokine Receptor, CCR5," <i>Arthritis Rheum.</i> 42:989-992, American College of Rheumatology (May 1999)
AS	9	Greenwood, M.T., et al., "Ligand Binding Pocket of the Human Somatostatin Receptor 5: Mutational Analysis of the Extracellular Domains," <i>Mol. Pharmacol.</i> 52:807-814, The American Society for Pharmacology and Experimental Therapeutics (November 1997)
AT	9	Gura, T., "Chemokines Take Center Stage in Inflammatory Ills," <i>Science</i> 272:954-956, American Association for the Advancement of Science (May 1996)

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	AL10	WO 98/42354	10/01/1998	WIPO			Yes No
	AM10	WO 98/44158	10/08/1998	WIPO			Yes No
	AN10	WO 98/51705	11/19/1998	WIPO			Yes No
	AO10	WO 98/54317	12/03/1998	WIPO			Yes No
	AP10	WO 98/55873	12/10/1998	WIPO			Yes X No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>10</u>	Hla, T., and Maciag, T., "An abundant transcript induced in differentiating human endothelial cells encodes a polypeptide with structural similarities to G-protein-coupled receptors," <i>J. Biol. Chem.</i> 265:9308-9313, American Society for Biochemistry and Molecular Biology, Inc. (1990)
AS	<u>10</u>	Horuk, R., "Molecular Properties of the Chemokine Receptor Family," <i>Trends in Pharmacol. Sci.</i> 15:159-165, Elsevier Science (May 1994)
AT	<u>10</u>	Jobling, M.G. and Holmes, R.K., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Mol. Microbiol.</i> 5:1755-1767, Blackwell Science (1991)

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	AL11	WO 98/56421	12/17/1998	WIPO			Yes No
	AM11	WO 98/58536	12/30/1998	WIPO			Yes No
	AN11	WO 98/58966	12/30/1998	WIPO			Yes No
	AO11	WO 99/01127	01/14/1999	WIPO			Yes No
	AP11	WO 99/04794	02/04/1999	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Larhammar, D., <i>et al.</i> , "The Receptor Revolution - Multiplicity of G-Protein-Coupled Receptors," <i>Drug Design and Discovery</i> 9:179-188, Harwood Academic Publishers GmbH (1993)
	AS	<u>11</u>	Lee, B., <i>et al.</i> , "Epitope Mapping of CCR5 Reveals Multiple Conformational States and Distinct but Overlapping Structures Involved in Chemokine and Coreceptor Function," <i>J. Biol. Chem.</i> 274:9617-9626, American Society for Biochemistry and Molecular Biology (April 1999)
	AT	<u>11</u>	Lee, N.H. and Kerlavage, A.R., "Molecular Biology of G-Protein-Coupled Receptors," <i>DN &amp; P</i> 6:488-497, Prous Science (1993)

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	AL12	WO 99/06561	02/11/1999	WIPO			Yes No
	AM12	WO 99/08703	02/25/1999	WIPO			Yes No
	AN12	WO 99/09984	03/04/1999	WIPO			Yes No
	AO12	WO 99/12416	03/18/1999	WIPO			Yes No
	AP12	WO 99/13112	03/18/1999	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>12</u>	Leong, S.R., et al., "Complete Mutagenesis of the Extracellular Domain of Interleukin-8 (IL-8) Type A Receptor Identifies Charged Residues Mediating IL-8 Binding and Signal Transduction," <i>J. Biol. Chem.</i> 269:19343-19348, American Society for Biochemistry and Molecular Biology (July 1994)
	AS	<u>12</u>	Lerner, R.A., "Tapping the immunological repertoire to produce antibodies of predetermined specificity," <i>Nature</i> 299:592-596, Macmillan Journals Ltd (1982)
	AT	<u>12</u>	Libert, F., et al., "Selective amplification and cloning of four new members of the G protein-coupled receptor family," <i>Science</i> 244:569-572, American Association for the Advancement of Science (1989)

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	AL13	WO 99/14378	03/25/1999	WIPO			Yes No
	AM13	WO 99/17773	04/15/1999	WIPO			Yes No
	AN13	WO 99/23107	05/14/1999	WIPO			Yes No
	AO13	WO 99/23253	05/14/1999	WIPO			Yes No
	AP13	WO 99/24065	05/20/1999	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>13</u>	Mack, M., <i>et al.</i> , "Predominance of Mononuclear Cells Expressing the Chemokine Receptor CCR5 in Synovial Effusions of Patients with Different Forms of Arthritis," <i>Arthritis Rheum.</i> 42:981-988, American College of Rheumatology (May 1999)
	AS	<u>13</u>	Marshall, E., "HIV Experts vs. Sequencers in Patent Race," <i>Science</i> 275:1263, American Association for the Advancement of Science (February 1997)
	AT	<u>13</u>	Meyerhof, W., <i>et al.</i> , "Molecular cloning of a novel putative G-protein coupled receptor expressed during rat spermiogenesis," <i>FEBS Letters</i> 284:155-160, Elsevier Science B.V. (1991)

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AL14	WO 99/24553	05/20/1999	WIPO			Yes No
AM14	FR 2 771 423	05/28/1999	France			Yes X No
AN14	WO 99/27122	06/03/1999	WIPO			Yes X No
AO14	WO 99/27939	06/10/1999	WIPO			Yes No
AP14	WO 99/28474	06/10/1999	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>14</u>	Mummidi, S., et al., "The Human CC Chemokine Receptor 5 (CCR5) Gene," <i>J. Biol. Chem.</i> 272:30662-30671, American Society for Biochemistry and Molecular Biology (December 1997)
AS	<u>14</u>	Murdoch, C. and Finn, A., "Chemokine receptors and their role in inflammation and infectious diseases," <i>Blood</i> 95:3032-3043, The American Society of Hematology (May 2000)
AT	<u>14</u>	Murphy, P.M., "The Molecular Biology of Leukocyte Chemoattractant Receptors," <i>Annu. Rev. Immunol.</i> 12:593-633, Annual Reviews, Inc. (1994)

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	AL15	WO 99/32100	07/01/1999	WIPO			Yes No
	AM15	WO 99/32138	07/01/1999	WIPO			Yes No
	AN15	WO 99/33989	07/01/1999	WIPO			Yes No
	AO15	WO 99/36518	07/22/1999	WIPO			Yes No
	AP15	WO 99/38514	08/05/1999	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>15</u>	Neote, K., et al., "Molecular Cloning, Functional Expression, and Signaling Characteristics of a C-C Chemokine Receptor," <i>Cell</i> 72:415-425, Cell Press (1993)
	AS	<u>15</u>	Nomura, H., et al., "Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide receptors," <i>Int. Immunol.</i> 5:1239-1249, Oxford University Press (1993)
	AT	<u>15</u>	Oliveira, L., et al., "A common motif in G-protein-coupled seven transmembrane helix receptors," <i>J. Comput. Aided Mol. Des.</i> 7:649-658, Escom Science Publishers (1993)

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	AL16	WO 99/43711	09/02/1999	WIPO			Yes No
	AM16	JP 11-243960	09/14/1999	Japan			Yes X No
	AN16	WO 99/46372	09/16/1999	WIPO			Yes No
	AO16	WO 99/51751	10/14/1999	WIPO			Yes X No
	AP16	WO 99/53033	10/21/1999	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>16</u>	Olson, W., <i>et al.</i> , "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, gp120 Binding, and CC-Chemokine Activity by Monoclonal Antibodies to CCR5," <i>J. Virol.</i> 73:4145-4155, American Society for Microbiology (May 1999)
AS	<u>16</u>	Osbourn, J.K., <i>et al.</i> , "Directed Selection of MIP-1 $\alpha$ Neutralizing CCR5 Antibodies from a Phage Display Human Antibody Library," <i>Nature Biotechnol.</i> 16:778-781, Nature Publishing Group (August 1998)
AT	<u>16</u>	Probst, W.C., <i>et al.</i> , "Sequence Alignment of the G-Protein Coupled Receptor Superfamily," <i>DNA Cell Biol.</i> 11:1-20, Mary Ann Liebert, Inc. (1992)

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	AL17	JP 11-292795	10/26/1999	Japan			Yes X No
	AM17	WO 99/62535	12/09/1999	WIPO			Yes No
	AN17	WO 99/67429	12/29/1999	WIPO			Yes No
	AO17	WO 99/66944	12/29/1999	WIPO			Yes No
	AP17	WO 00/02045	01/13/2000	WIPO			Yes No

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AR	17	Promega, "3. Nucleic Acids: Primers and Linkers," in 1993/94 Catalog, Promega Corporation (1993)
AS	17	Raport, C.J., et al., "Molecular Cloning and Functional Characterization of a Novel Human CC Chemokine Receptor (CCR5) for RANTES, MIP-1 $\beta$ , and MIP-1 $\alpha$ ," <i>J. Biol. Chem.</i> 271:17161-17166, American Society for Biochemistry and Molecular Biology (July 1996)
AT	17	Ross, P.C., et al., "RTA, a candidate G protein-coupled receptor: cloning, sequencing, and tissue distribution," <i>Proc. Natl. Acad. Sci. USA</i> 87:3052-3056, National Academy of Science (1990)

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	AL18	WO 00/05265	02/03/2000	WIPO			Yes No
	AM18	WO 00/06085	02/10/2000	WIPO			Yes No
	AN18	WO 00/06146	02/10/2000	WIPO			Yes No
	AO18	WO 00/06153	02/10/2000	WIPO			Yes No
	AP18	EP 0 979 655	02/16/2000	Europe			Yes X No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>18</u>	Samson, M., et al., "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene," <i>Chem. Abstracts</i> 124:993, Abstract No. 258056e, The American Chemical Society (May 1996)
AS	<u>18</u>	Samson, M., et al., "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene," <i>Biochemistry</i> 35:3362-3367, American Chemical Society (March 1996)
AT	<u>18</u>	Schall, T.J., "Biology of the RANTES/SIS Cytokine Family," <i>Cytokine</i> 3:165-183, Academic Press, Inc. (1991)

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	AL19	WO 00/08043	02/17/2000	WIPO			Yes No
	AM19	WO 00/09525	02/24/2000	WIPO			Yes No
	AN19	WO 00/10965	03/02/2000	WIPO			Yes No
	AO19	WO 00/14220	03/16/2000	WIPO			Yes X No
	AP19	WO 00/15663	03/23/2000	WIPO			Yes No

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AR	<u>19</u>	Skolnick, J. and Fetrow, J.S., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <i>TIBTECH</i> 18:34-39, Elsevier Science Ltd (January 2000)
AS	<u>19</u>	Suzuki, N., et al., "Selective accumulation of CCR5 <sup>+</sup> T lymphocytes into inflamed joints of rheumatoid arthritis," <i>Intl. Immunol.</i> 11:553-559, The Japanese Society for Immunology and Oxford University Press (April 1999)
AT	<u>19</u>	Travis, J., "Multiple doors for HIV to enter cells," <i>Science News</i> 149:390, Science Service (June 1996)

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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Li et al.	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL20	RU 2126048	02/10/1999	Russian			Yes X No
	AM20	WO 00/15785	03/23/2000	WIPO			Yes X No
	AN20	WO 01/58916	08/16/2001	WIPO			Yes No
	AO20	WO 02/064612	8/22/2002	WIPO			Yes No
	AP20	WO 03/075944	09/18/2003	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>20</u>	Weiss, R.A. and P.R. Clapham, "Hot fusion of HIV," <i>Nature</i> 381:647-648, Macmillan Publishing Group (June 1996)
	AS	<u>20</u>	Wu, L., et al., "Interaction of Chemokine Receptor CCR5 with its Ligands: Multiple Domains for HIV-1 gp 120 Binding and a Single Domain for Chemokine Binding," <i>J. Exp. Med.</i> 186:1373-138, The Rockefeller University Press (October 1997)
	AT	<u>20</u>	Yamagami, S., et al., "cDNA Cloning and Functional Expression of a Human Monocyte Chemoattractant Protein 1 Receptor," <i>Biochem. Biophys. Res. Commun.</i> 202:1156-1162, Academic Press, Inc. (July 1994)

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AL21	WO 2004/020468	03/11/2004	WIPO			Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>21</u>	Zang, Y.C.Q., et al., "Aberrant T cell migration toward RANTES and MIP-1 $\alpha$ in patients with multiple sclerosis: Overexpression of chemokine receptor CCR5," <i>Brain</i> 123:1874-1882, Oxford University Press (September 2000)
AS	<u>21</u>	"CCR-5 Antibodies-Human Chemokine Receptor Antibodies," Aves Labs, Inc., < <a href="http://www.aveslab.com/CCR5.html">http://www.aveslab.com/CCR5.html</a> >, (visited August 2001)
AT	<u>21</u>	"CCR-5 (CCR5) Chemokine Receptor antibodies available through Research Diagnostics Inc.," Research Diagnostics Inc., < <a href="http://www.researchdi.com/cytokines/CCR5ab.htm">http://www.researchdi.com/cytokines/CCR5ab.htm</a> >, (visited August 2001)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>22</u>	"Euroscreen Available Products: Mammalian recombinant cell lines," Euroscren s.a. (1999), < <a href="http://www.euroscreen.be/products/cell_lines.html">http://www.euroscreen.be/products/cell_lines.html</a> >, (visited August 2001)
	AS	<u>22</u>	"Myocardial Infarction," in The Merck Manual of Diagnosis and Therapy, Seventeenth Edition, Centennial Edition, Section 16, Chapter 202, Beers, M.H. and Berkow, R., eds., Merck & Co., Inc. (1999) < <a href="http://www.merck.com/pubs/Manual/section16/chapter202/202d.htm">http://www.merck.com/pubs/Manual/section16/chapter202/202d.htm</a> > (visited August 2001)
	AT	<u>22</u>	"Specification Sheet H-1001," Aves Labs, Inc., < <a href="http://www.aveslab.com/specs/h1001.html">http://www.aveslab.com/specs/h1001.html</a> >, (visited August 2001)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>23</u>	Database EMBL Online, Accession No. AF031237, from Mummidi, S., et al. (first available January 1998)
AS	<u>23</u>	Dialog File 351, Accession No. 1995-312725/199541, Derwent WPI English language abstract of EP 0 671 391 (Document AL2)
AT	<u>23</u>	Dialog File 351, Accession No. 1994-265874/199433, Derwent WPI English language abstract of EP 0 612 723 (Document AM4)

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	AM						Yes No
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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>24</u>	Dialog File 351, Accession No. 11573252, Derwent WPI English language abstract of WO 97/41230 (Document AL5)
	AS	<u>24</u>	Dialog File 351, Accession No. 12336308, Derwent WPI English language abstract of WO 98/55873 (Document AP10)
	AT	<u>24</u>	Dialog File 351, Accession No. 12523594, Derwent WPI English language abstract of FR 2 771 423 (Document AM14)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>25</u>	Dialog File 351, Accession No. 12797479, Derwent WPI English language abstract of JP 11-243960 (Document AM16)
	AS	<u>25</u>	Dialog File 351, Accession No. 1999-620207/199953, Derwent WPI English language abstract of JP 11-292795 (Document AL17)
	AT	<u>25</u>	Dialog File 351, Accession No. 2000-197082/200018, Derwent WPI English language abstract of EP 0 979 655 (Document AP18)

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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>26</u>	Dialog File 351, Accession No. 13109249, Derwent WPI English language abstract of RU 2126048 (Document AL20)
	AS	<u>26</u>	Dialog File 351, Accession No. 13099553, Derwent WPI English language abstract for WO 00/15785 (Document AM20)
	AT	<u>26</u>	NCBI Entrez, Genbank Report, Accession No. M74240, Beckman, M.P., et al. (1991)

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>27</u>	NCBI Entrez, Genbank Report, Accession No. L10918, Gao, J.-L., et al. (1993)
	AS	<u>27</u>	NCBI Entrez, Genbank Report, Accession No. U03882, Charo, I.F., et al. (June 1994)
	AT	<u>27</u>	NCBI Entrez, Genbank Report, Accession No. D10925, Nomura, H., et al. (September 1994)

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	AR	<u>28</u>	NCBI Entrez, Genbank Report, Accession No. L09230, Neote, K., et al. (December 1994)
	AS	<u>28</u>	NCBI Entrez, Genbank Report, Accession No. L24445, Prado, G.N., et al. (May 1994)
	AT	<u>28</u>	NCBI Entrez, Genbank Report, Accession No. U29677, Post, T.W., et al. (January 1996)

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	AN						Yes No
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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>29</u>	NCBI Entrez, Genbank Report, Accession No. U28406, Gao, J.L., and Murphy, P.M. (February 1996)
	AS	<u>29</u>	NCBI Entrez, Genbank Report, Accession No. D29984, Yamagami, S., et al. (August 1994)
	AT	<u>29</u>	NCBI Entrez, Genbank Report, Accession No. U47036, Boring, L., et al. (March 1996)

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

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	AR	<u>30</u>	NCBI Entrez, Genbank Report, Accession No. U47035, Boring, L., et al. (March 1996)
	AS	<u>30</u>	NCBI Entrez, Genbank Report, Accession No. U28694, Combadiere, C., et al. (June 1995)
	AT	<u>30</u>	NCBI Entrez, Genbank Report, Accession No. U51717, Kurihara, T., and Bravo, R. (May 1996)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>31</u>	NCBI Entrez, Genbank Report, Accession No. X94151, Meyer, A., <i>et al.</i> (July 1996)
	AS	<u>31</u>	NCBI Entrez, Genbank Report, Accession No. U54994, Raport, C.J., <i>et al.</i> (July 1996)
	AT	<u>31</u>	NCBI Entrez, Genbank Report, Accession No. X99393, Samson, M., <i>et al.</i> (September 1996)

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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>32</u>	NCBI Entrez, Genbank Report, Accession No. U56819, Heesen, M., et al. (September 1996)
AS	<u>32</u>	NCBI Entrez, Genbank Report, Accession No. U49727, Ponath, P.D., et al. (August 1996)
AT	<u>32</u>	NCBI Entrez, Genbank Report, Accession No. X91492, Samson, M., et al. (April 1996)

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	AO						Yes No
	AP						Yes No

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	AR	<u>33</u>	NCBI Entrez, Genbank Report, Accession No. U51241, Daugherty, B.L. (August 1996)
	AS	<u>33</u>	NCBI Entrez, Genbank Report, Accession No. U57840, Combadiere, C., et al. (June 1996)
	AT	<u>33</u>	NCBI Entrez, Genbank Report, Accession No. U68565, Kuziel, W.A., and Maeda, N. (December 1996)

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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>34</u>	NCBI Entrez, Genbank Report, Accession No. U70988, Dunstan, C.A.N., et al. (October 1996)
	AS	<u>34</u>	NCBI Entrez, GenBank Report, Accession No. AF019772, submitted by Doranz, B.J., et al. (September 1997)
	AT	<u>34</u>	NCBI Entrez, GenBank ref file NP_000570.1 (chemokine receptor 5 [Homo sapiens]) BLAST homology search alignment

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AN						Yes No
AO						Yes No
AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>35</u>	European Search Report for European Patent Application No. EP01912713, European Patent Office, Netherlands, mailed on May 25, 2004
AS	<u>35</u>	Co-pending U.S. Application No. 10/127,764, inventors Li et al., filed April 23, 2002 (NOT PUBLISHED)
AT		

EXAMINER	DATE CONSIDERED
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.